Index to Volume 10: Subject

A

Advection of fish eggs and larvae
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
(Brickman *et al.*), 284

Advection
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342

Advective exchange
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
(Hinrichsen *et al.*), 249

Age-length relationship
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea
(Akira *et al.*), 367

Anchovy
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151

Apex predators
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and Biology
(Napp *et al.*), 61

Argentine anchovy
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193

B

Baltic cod
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
(Hinrichsen *et al.*), 249

Bering Sea
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and Biology
(Napp *et al.*), 61
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117

Biogeochemical cycles
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology
(Napp *et al.*), 61

Biomass
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

Bio-physical coupling
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151

Box-Jenkins model
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea
(Lloret *et al.*), 33

C

CalCOFI
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13

Californian Current
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13

Carrying capacity
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
(Bugaev *et al.*), 26

Chile
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
(Quiñones *et al.*), 311

Chinoecetes
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska
(Rosenkranz *et al.*), 1

Climate change
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology
(Napp *et al.*), 61

Climate factors
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

Clupea harengus
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
(Maravelias), 259

Coccolithophorids
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117

Cod
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342

Continental slope
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
(Hare *et al.*), 164

Copepoda
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

D

Density dependence
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
(Bugaev *et al.*), 26

Distribution
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193

Index to Volume 10: Subject

A

Advection of fish eggs and larvae
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
(Brickman *et al.*), 284

Advection
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342

Advective exchange
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
(Hinrichsen *et al.*), 249

Age-length relationship
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea
(Akira *et al.*), 367

Anchovy
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151

Apex predators
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and Biology
(Napp *et al.*), 61

Argentine anchovy
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193

B

Baltic cod
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
(Hinrichsen *et al.*), 249

Bering Sea
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and Biology
(Napp *et al.*), 61
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117

Biogeochemical cycles
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology
(Napp *et al.*), 61

Biomass
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

Bio-physical coupling
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151

Box-Jenkins model
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea
(Lloret *et al.*), 33

C

CalCOFI
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13

Californian Current
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13

Carrying capacity
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
(Bugaev *et al.*), 26

Chile
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
(Quiñones *et al.*), 311

Chinoecetes
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska
(Rosenkranz *et al.*), 1

Climate change
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology
(Napp *et al.*), 61

Climate factors
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

Clupea harengus
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
(Maravelias), 259

Coccolithophorids
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117

Cod
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342

Continental slope
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
(Hare *et al.*), 164

Copepoda
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329

D

Density dependence
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
(Bugaev *et al.*), 26

Distribution
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193

E
Early life stage model
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model (Brickman *et al.*), 284
Early life stages
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks (Hinrichsen *et al.*), 249
Eastern Bering Sea
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska (Rosenkranz *et al.*), 1
Ebre River
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea (Lloret *et al.*), 33
Egg development
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment (Bradbury *et al.*), 342
El Niño
Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel (Kimura *et al.*), 51
Eleginops maclovinus
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile (Quiñones *et al.*), 311
Emiliania huxleyi
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology (Napp *et al.*), 61
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton (Stockwell *et al.*), 99
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997 (Baduini *et al.*), 117
Engraulis anchoita
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer (Hansen *et al.*), 193
***Engraulis japonicus* growth**
Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region (Takahashi *et al.*), 235
Environment
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation (Maravelias), 259
Euphasiid
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997 (Baduini *et al.*), 117

F
Field study
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions (Paradis *et al.*), 217
Fish larvae
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions (Paradis *et al.*), 217
Fishery management
Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management (Perrotta *et al.*), 275
Food webs
Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and biology (Napp *et al.*), 61
Foraging behaviour
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA (Zamon), 353
Freshwater input
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile (Quiñones *et al.*), 311
Fronts
Biophysical dynamics of western transition zones: a preliminary synthesis (Olson), 131

G
Generalized Additive Models
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation (Maravelias), 259
GIS
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic (Waluda *et al.*), 207
Growth
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye (Bugaev *et al.*), 26
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions (Paradis *et al.*), 217
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea (Akira *et al.*), 367
Gulf of Lions
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea (Lloret *et al.*), 33
Gulf of Roses-Cape Cresus
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea (Lloret *et al.*), 33
Gulf Stream
Biophysical dynamics of western transition zones: a preliminary synthesis (Olson), 133
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larval assemblages, relation to hydrography and implications for larval transport (Hare *et al.*), 164
Gut content composition
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989 (Nakata *et al.*), 329

H
Harbour seal (*Phoca vitulina*)
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Iislands, Washington, USA (Zamon), 353

Herring (*Clupea harengus*)
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA
(Zamon), 353
Humboldt Current System
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
(Quiñones *et al.*), 311
Hydrodynamics
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151

I
Illex argentinus
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic
(Waluda *et al.*), 207
Individual-based model
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions
(Paradis *et al.*), 217

J
Japanese anchovy
Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region
(Takahashi *et al.*), 235
Japanese eel
Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel
(Kimura *et al.*), 51

K
Kuroshio
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
(Hare *et al.*), 133
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329
Kuroshio-Oyashio transition region
Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region
(Takahashi *et al.*), 235

L
Larval assemblages
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
(Hare *et al.*), 164
Larval fish
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
(Dower *et al.*), 268
Larval growth
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
(Brickman *et al.*), 284
Larval transport
Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel
(Kimura *et al.*), 51
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
(Hare *et al.*), 164
Length-frequency distributions
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions
(Paradis *et al.*), 217
Linear regression
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska
(Rosenkranz *et al.*), 1

M
Mediterranean fisheries
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea
(Lloret *et al.*), 33
Mesoscale eddies
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13
Mesoscale oceanography
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic
(*Waluda et al.*), 207
Mortality
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
(Brickman *et al.*), 284
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342
Muga River
Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea
(Lloret *et al.*), 33

N
NE Pacific
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
(Dower *et al.*), 268
North Equatorial Current
Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel
(Kimura *et al.*), 51
North Sea
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
(Maravelias), 259
Nutrients
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99

O
Otolith
Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region
(Takahashi *et al.*), 235
Otoliths
The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
(Hinrichsen *et al.*), 249

P
Pacific sardine
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13
Patagonian stock
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193
Pelagic
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
(Maravelias), 259
Pink salmon
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
(Bugaev *et al.*), 26
Placentia Bay
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
(Bradbury *et al.*), 342
Predation
Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions
(Paradis *et al.*), 217
Predator-prey interactions
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA
(Zamon), 353
Prerecruit survival
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13
Productivity
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
(Stockwell *et al.*), 99
Puffinus tenuirostris
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117

R
Rainfall
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
(Quiñones *et al.*), 311
Recruitment
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska
(Rosenkranz *et al.*), 1
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151
Regression analysis
The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
(Allain *et al.*), 151
Remote sensing
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic
(Waluda *et al.*), 207
Retention/survival
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
(Brickman *et al.*), 284
River runoff
Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
(Quiñones *et al.*), 311
Rockfish
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
(Dower *et al.*), 268
RoxAnn
Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
(Maravelias), 259

S
Salinity front
Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel
(Kimura *et al.*), 51
Salmon (Oncorhynchus)
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA
(Zamon), 353
Sandlance (*Ammodytes hexapterus*)
Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA
(Zamon), 353
Sardinops sagax
Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
(Logerwell *et al.*), 13
Scomber japonicus
Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management
(Perrotta *et al.*), 275
Sea ice
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea
(Akira *et al.*), 367
Sea surface temperature
Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region
(Takahashi *et al.*), 235
Sea temperatures
Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
(Hansen *et al.*), 193
Seabird die-off
Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
(Baduini *et al.*), 117
Seamount
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
(Dower *et al.*), 268
Sebastes
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
(Dower *et al.*), 268
Size composition
Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971-1989
(Nakata *et al.*), 329
Sockeye salmon
Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth

of Ozernaya River sockeye (Bugaev *et al.*), 26
South Atlantic
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic (Waluda *et al.*), 207
South-west Nova Scotia
Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model (Brickman *et al.*), 284
Spawning ground
Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management (Perrotta *et al.*), 275
Squid fishery
Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic (Waluda *et al.*), 207
SST
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea (Akira *et al.*), 367

T
Tanner crabs
Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska (Rosenkranz *et al.*), 1
Taylor cone
High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific (Dower *et al.*), 268
Temperature conditions
Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management (Perrotta *et al.*), 275
Temperature
The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment (Bradbury *et al.*), 342

U
Upwelling
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larval assemblages, relation to hydrography and implications for larval transport (Hare *et al.*), 133

W
Walleye pollock
Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea (Akira *et al.*), 367
Western boundary currents
Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larval assemblages, relation to hydrography and implications for larval transport (Hare *et al.*), 133

Z
Zooplankton
Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton (Stockwell *et al.*), 99
Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management (Perrotta *et al.*), 275

Index to Volume 10: Author

Adams, Jennifer Miletta, 69
Akira, N., 367
Allain, G., 151

Baduini, C.L., 117
Bond, N.A., 81
Bond, Nicholas A., 69
Böttcher, U., 249
Bradbury, Ian R., 342
Brickman, D., 284
Brodeur, Richard D., 99
Bugaev, V.F., 26

Cowen, Robert K., 164
Coyle, K.O., 117
Coyle, Kenneth O., 99

Dower, John F., 268

Eveson, J.P., 26

Fahay, Michael P., 164
Frank, K.T., 284
Fraser, Sandra, 342
Fromentin, Jean-Marc, 33

Grachev, L.E., 26

Hansen, J.E., 193
Hare, Jonathan A., 164
Hernandez, Daniel R., 275
Hinrichsen, H.-H., 249
Hunt Jr., G.L., 117
Hunt Jr., George L., 99
Hunt, George L., 61
Hyrenbach, K.D., 117

Inoue, Takashi, 51

Kachel, N.B., 81
Katakura, S., 367
Kim, Jinyeong, 297
Kimura, Shingo, 51
Kinoshita, T., 235
Koyama, S., 329
Kruse, Gordon H., 1

Lazure, P., 151
Lehmann, A., 249
Lleonart, Jordi, 33
Lloret, Josep, 33
Lo, Nancy C.H., 297
Logerwell, Elizabeth A., 13

Madirolas, A., 193
Maravelias, Christos D., 259
Martos, P., 193
Matsukawa, Y., 329
Mendenhall, V., 117
Mito, K., 367
Montes, R.M., 311

Nakata, K., 329
Napp Jr, Jeffrey M., 61
Napp, Jeffrey M., 99

Oeberst, R., 249
Olson, Donald B., 133
Overland, James E., 69

Paradis, A.R., 217
Pepin, P., 217
Perrotta, Ricardo G., 275
Perry, R.Ian, 268
Petitgas, P., 151
Pierce, G.J., 207
Pinchuk, A., 117
Pinchuk, Alexei I., 99

Quiñones, R.A., 311

Rodhouse, P.G., 207
Rosenkranz, Gregg E., 1

Salo, S.A., 81
Schumacher, J.D., 81
Selifonov, M.M., 26
Shackell, N.L., 284
Smith, Paul E., 13
Snelgrove, Paul V.R., 342
Solé, Ignasi, 33
Stabeno, P.J., 81
Stockwell, Dean A., 99
Sugimoto, Takashige, 51

Takahashi, M., 235
Trathan, P.N., 207
Tringali, Leonardo, 275
Tyler, Albert V., 1

Viñas, María D., 275
Voss, R., 249

Waluda, C.M., 207
Watanabe, C., 235
Watanabe, Y., 235
Welch, D.W., 26
Whitledge, Terry E., 99

Yanagimoto, T., 367

Zamon, Jeanette E., 353
Zeeman, Stephan I., 99

Contents

Volume 10 Issue 1 March 2001

ORIGINAL ARTICLES

1 Effects of water temperature and wind on year-class success of Tanner crabs in Bristol Bay, Alaska
Gregg E. Rosenkranz, Albert V. Tyler and Gordon H. Kruse

13 Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae
Elizabeth A. Logerwell and Paul E. Smith

26 Influence of the marine abundance of pink (*Oncorhynchus gorbuscha*) and sockeye salmon (*O. nerka*) on growth of Ozernaya River sockeye
V. F. Bugaev, D. W. Welch, M. M. Selifonov, L. E. Grachev and J. P. Eveson

33 Fluctuations of landings and environmental conditions in the north-western Mediterranean Sea
Josep Lloret, Jordi Lleonart, Ignasi Solé and Jean-Marc Fromentin

51 Fluctuation in the distribution of low-salinity water in the North Equatorial Current and its effect on the larval transport of the Japanese eel
Shingo Kimura, Takashi Inoue and Takashige Sugimoto

61 Anomalous conditions in the south-eastern Bering Sea 1997: linkages among climate, weather, ocean, and Biology
Jeffrey M. Napp Jr and George L. Hunt

69 North Pacific Atmospheric and SST Anomalies in 1997: Links to ENSO?
James E. Overland, Nicholas A. Bond and Jennifer Miletta Adams

81 On the temporal variability of the physical environment over the south-eastern Bering Sea
P. J. Stabeno, N. A. Bond, N. B. Kachel, S. A. Salo and J. D. Schumacher

99 Anomalous conditions in the south-eastern Bering Sea, 1997: nutrients, phytoplankton and zooplankton
Dean A. Stockwell, Terry E. Whitledge, Stephan I. Zeeman, Kenneth O. Coyle, Jeffrey M. Napp, Richard D. Brodeur, Alexei I. Pinchuk and George L. Hunt Jr.

117 Mass mortality of short-tailed shearwaters in the south-eastern Bering Sea during summer 1997
C. L. Baduini, K. D. Hyrenbach, K. O. Coyle, A. Pinchuk, V. Mendenhall and G. L. Hunt Jr.

131 OBITUARY

Contents

Volume 10 Issue 2 June 2001

REVIEW

133 Biophysical dynamics of western transition zones: a preliminary synthesis
Donald B. Olson

ORIGINAL ARTICLES

151 The influence of mesoscale ocean processes on anchovy (*Engraulis encrasicolus*) recruitment in the Bay of Biscay estimated with a three-dimensional hydrodynamic model
G. Allain, P. Petitgas and P. Lazure

164 Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larvel assemblages, relation to hydrography and implications for larval transport
Jonathan A. Hare, Michael P. Fahay and Robert K. Cowen

193 Relationship between spatial distribution of the Patagonian stock of Argentine anchovy, *Engraulis anchoita*, and sea temperatures during late spring to early summer
J. E. Hansen, P. Martos and A. Madirolas

207 Remotely sensed mesoscale oceanography and the distribution of *Illex argentinus* in the South Atlantic
C. M. Waluda, P. G. Rodhouse, P. N. Trathan and G. J. Pierce

217 Modelling changes in the length-frequency distributions of fish larvae using field estimates of predator abundance and size distributions
A. R. Paradis and P. Pepin

235 Growth of larval and early juvenile Japanese anchovy, *Engraulis japonicus*, in the Kuroshio-Oyashio transition region
M. Takahashi, Y. Watanabe, T. Kinoshita and C. Watanabe

Contents

Volume 10 Issue 3 September 2001

ORIGINAL ARTICLES

249 The potential for advective exchange of the early life stages between the western and eastern Baltic cod (*Gadus morhua* L.) stocks
H.-H. Hinrichsen, U. Böttcher, R. Oeberst, R. Voss and A. Lehmann

259 Habitat associations of Atlantic herring in the Shetland area: influence of spatial scale and geographic segmentation
Christos D. Maravelias

268 High abundance of larval rockfish over Cobb Seamount, an isolated seamount in the Northeast Pacific
John F. Dower and R. Ian Perry

275 Temperature conditions in the Argentine chub mackerel (*Scomber japonicus*) fishing ground: implications for fishery management
Ricardo G. Perrotta, María D. Viñas, Daniel R. Hernandez and Leonardo Tringali

284 Modelling the retention and survival of Browns Bank haddock larvae using an early life stage model
D. Brickman, N. L. Shackell and K. T. Frank

297 Temporal variation of seasonality of egg production and the spawning biomass of Pacific anchovy, *Engraulis japonica*, in the southern waters of Korea in 1983–1994
Jinyeong Kim and Nancy C. H. Lo

Contents

Volume 10 Issue 4 December 2001

ORIGINAL ARTICLES

311 Relationship between freshwater input to the coastal zone and the historical landings of the benthic/demersal fish *Eleginops maclovinus* in central-south Chile
R. A. Quiñones and R. M. Montes

329 Interannual variation in spring biomass and gut content composition of copepods in the Kuroshio Current, 1971–1989
K. Nakata, S. Koyama and Y. Matsukawa

342 The influence of temperature on advective loss of Atlantic cod (*Gadus morhua*) eggs from the inshore environment
Ian R. Bradbury, Paul V.R. Snelgrove and Sandra Fraser

353 Seal predation on salmon and forage fish schools as a function of tidal currents in the San Juan Islands, Washington, USA
Jeanette E. Zamon

367 Interannual variability in growth of walleye pollock, *Theragra chalcogramma*, in the central Bering Sea
N. Akira, T. Yanagimoto, K. Mito and S. Katakura

376 INDEXES TO VOLUME 10